

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/772,774
Source: FWO
Date Processed by STIC: 11-17-04

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IFWO

RAW SEQUENCE LISTING

DATE: 11/17/2004

PATENT APPLICATION: US/10/772,774

TIME: 09:37:21

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\11172004\J772774.raw

3 <110> APPLICANT: LARSEN, BJARNE D.
 4 PETERSEN, JORGEN S.
 5 MEIER, EDDI
 6 KJOLBYE, ANNE L.
 7 JORGENSEN, NIKLAS R.
 8 NIELSEN, MORTEN S.
 9 MARTINS, JAMES B.
 10 HOLSTEIN-RATHLOU, NEILS-HENRIK
 12 <120> TITLE OF INVENTION: NOVEL ANTIARRHYTHMIC PEPTIDES
 14 <130> FILE REFERENCE: 55461-C2 (45487)
 16 <140> CURRENT APPLICATION NUMBER: 10/772,774
 17 <141> CURRENT FILING DATE: 2004-02-04
 19 <160> NUMBER OF SEQ ID NOS: 299
 21 <170> SOFTWARE: PatentIn Ver. 2.1
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 30 antiarrythmic peptide
 32 <220> FEATURE:
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 35 <223> OTHER INFORMATION: 4Hyp
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 39 1 5
 42 <210> SEQ ID NO: 2
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 51 <220> FEATURE:
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 53 <222> LOCATION: (4)
 54 <223> OTHER INFORMATION: 4Hyp
 56 <400> SEQUENCE: 2
 W--> 57 Gly Ala Gly Xaa Pro Tyr
 58 1 5
 61 <210> SEQ ID NO: 3

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70 <220> FEATURE:
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194 <220> FEATURE:

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219 <222> LOCATION: (2)
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W--> 256 Gly Ala Gly Xaa Pro Tyr
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Output Set: N:\CRF4\11172004\J772774.raw

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291 <223> OTHER INFORMATION: 4Hyp
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310 <223> OTHER INFORMATION: Sar
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323 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
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326 <220> FEATURE:
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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/772,774

DATE: 11/17/2004
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Input Set : A:\PTO.LM.txt
Output Set: N:\CRF4\11172004\J772774.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 3 ✓
Seq#:2; Xaa Pos. 4 ✓
Seq#:3; Xaa Pos. 4 ✓
Seq#:4; Xaa Pos. 4 ✓
Seq#:5; Xaa Pos. 2 ✓
Seq#:6; Xaa Pos. 3 ✓
Seq#:8; Xaa Pos. 2 ✓
Seq#:9; Xaa Pos. 2 ✓
Seq#:10; Xaa Pos. 2 ✓
Seq#:11; Xaa Pos. 2 ✓
Seq#:13; Xaa Pos. 4 ✓
Seq#:14; Xaa Pos. 4 ✓
Seq#:15; Xaa Pos. 3 ✓
Seq#:16; Xaa Pos. 2 ✓
Seq#:17; Xaa Pos. 3
Seq#:18; Xaa Pos. 2,3
Seq#:19; Xaa Pos. 4
Seq#:20; Xaa Pos. 4
Seq#:21; Xaa Pos. 4
Seq#:22; Xaa Pos. 4
Seq#:23; Xaa Pos. 4
Seq#:24; Xaa Pos. 4
Seq#:25; Xaa Pos. 4
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Seq#:27; Xaa Pos. 4
Seq#:28; Xaa Pos. 4
Seq#:29; Xaa Pos. 4
Seq#:30; Xaa Pos. 3
Seq#:31; Xaa Pos. 3
Seq#:32; Xaa Pos. 4
Seq#:33; Xaa Pos. 4
Seq#:34; Xaa Pos. 4
Seq#:35; Xaa Pos. 3
Seq#:36; Xaa Pos. 2
Seq#:37; Xaa Pos. 2
Seq#:39; Xaa Pos. 4
Seq#:40; Xaa Pos. 4
Seq#:42; Xaa Pos. 2
Seq#:43; Xaa Pos. 2
Seq#:44; Xaa Pos. 2
Seq#:45; Xaa Pos. 2
Seq#:47; Xaa Pos. 4
Seq#:48; Xaa Pos. 4
Seq#:49; Xaa Pos. 3

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Input Set : A:\PTO.LM.txt
Output Set: N:\CRF4\11172004\J772774.raw

Seq#:50; Xaa Pos. 2
Seq#:51; Xaa Pos. 3
Seq#:52; Xaa Pos. 2,3
Seq#:53; Xaa Pos. 4
Seq#:54; Xaa Pos. 4
Seq#:55; Xaa Pos. 4
Seq#:56; Xaa Pos. 4
Seq#:57; Xaa Pos. 4
Seq#:58; Xaa Pos. 4
Seq#:59; Xaa Pos. 4
Seq#:60; Xaa Pos. 4
Seq#:61; Xaa Pos. 4
Seq#:62; Xaa Pos. 4
Seq#:63; Xaa Pos. 4
Seq#:69; Xaa Pos. 3
Seq#:70; Xaa Pos. 3
Seq#:71; Xaa Pos. 3
Seq#:73; Xaa Pos. 2
Seq#:74; Xaa Pos. 2,3
Seq#:75; Xaa Pos. 2,3
Seq#:76; Xaa Pos. 2,3
Seq#:77; Xaa Pos. 3
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Seq#:79; Xaa Pos. 2,3
Seq#:80; Xaa Pos. 3
Seq#:81; Xaa Pos. 3
Seq#:82; Xaa Pos. 3
Seq#:84; Xaa Pos. 2
Seq#:85; Xaa Pos. 2,3
Seq#:86; Xaa Pos. 2,3
Seq#:87; Xaa Pos. 2,3
Seq#:88; Xaa Pos. 3
Seq#:89; Xaa Pos. 2
Seq#:90; Xaa Pos. 2,3
Seq#:91; Xaa Pos. 2
Seq#:92; Xaa Pos. 2
Seq#:93; Xaa Pos. 2
Seq#:94; Xaa Pos. 1,3
Seq#:99; Xaa Pos. 1
Seq#:100; Xaa Pos. 1
Seq#:101; Xaa Pos. 1
Seq#:102; Xaa Pos. 1
Seq#:103; Xaa Pos. 1
Seq#:104; Xaa Pos. 1,2
Seq#:105; Xaa Pos. 1
Seq#:106; Xaa Pos. 1
Seq#:107; Xaa Pos. 1
Seq#:108; Xaa Pos. 1
Seq#:109; Xaa Pos. 1,2

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Input Set : A:\PTO.LM.txt
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Seq#:110; Xaa Pos. 2
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Seq#:113; Xaa Pos. 2
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Seq#:115; Xaa Pos. 4,6
Seq#:116; Xaa Pos. 4,6
Seq#:117; Xaa Pos. 3,4
Seq#:118; Xaa Pos. 4
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Seq#:120; Xaa Pos. 3,4
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Seq#:123; Xaa Pos. 4
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Seq#:126; Xaa Pos. 2,4
Seq#:127; Xaa Pos. 3
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Seq#:130; Xaa Pos. 3
Seq#:131; Xaa Pos. 1,4
Seq#:132; Xaa Pos. 3,6
Seq#:133; Xaa Pos. 6
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Seq#:136; Xaa Pos. 2,6
Seq#:137; Xaa Pos. 3,6
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Seq#:140; Xaa Pos. 3,6
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Seq#:142; Xaa Pos. 5
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Seq#:147; Xaa Pos. 3,5
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Seq#:153; Xaa Pos. 5
Seq#:154; Xaa Pos. 2,5
Seq#:155; Xaa Pos. 3,5
Seq#:156; Xaa Pos. 2,5
Seq#:157; Xaa Pos. 4
Seq#:158; Xaa Pos. 4

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Input Set : A:\PTO.LM.txt
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Seq#:159; Xaa Pos. 4
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Seq#:163; Xaa Pos. 4,5
Seq#:164; Xaa Pos. 5,6
Seq#:165; Xaa Pos. 5,6
Seq#:172; Xaa Pos. 3
Seq#:173; Xaa Pos. 3
Seq#:174; Xaa Pos. 3
Seq#:175; Xaa Pos. 3
Seq#:176; Xaa Pos. 3
Seq#:177; Xaa Pos. 3
Seq#:178; Xaa Pos. 3
Seq#:179; Xaa Pos. 3
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Seq#:186; Xaa Pos. 2,3
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Seq#:191; Xaa Pos. 3
Seq#:192; Xaa Pos. 2,3
Seq#:193; Xaa Pos. 3
Seq#:194; Xaa Pos. 2
Seq#:195; Xaa Pos. 2,3
Seq#:197; Xaa Pos. 2,3
Seq#:198; Xaa Pos. 2
Seq#:199; Xaa Pos. 2,3
Seq#:200; Xaa Pos. 3
Seq#:201; Xaa Pos. 2,3
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Seq#:204; Xaa Pos. 2,3
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Seq#:213; Xaa Pos. 3
Seq#:214; Xaa Pos. 2
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Seq#:216; Xaa Pos. 4
Seq#:217; Xaa Pos. 4
Seq#:218; Xaa Pos. 4
Seq#:219; Xaa Pos. 3
Seq#:220; Xaa Pos. 4

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Seq#:227; Xaa Pos. 4
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Seq#:232; Xaa Pos. 2,3
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Seq#:235; Xaa Pos. 3
Seq#:236; Xaa Pos. 2,3
Seq#:237; Xaa Pos. 3
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Seq#:239; Xaa Pos. 2,3
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Seq#:244; Xaa Pos. 3
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Seq#:251; Xaa Pos. 3
Seq#:252; Xaa Pos. 3
Seq#:253; Xaa Pos. 3
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Seq#:262; Xaa Pos. 2
Seq#:263; Xaa Pos. 2
Seq#:264; Xaa Pos. 3
Seq#:265; Xaa Pos. 3
Seq#:266; Xaa Pos. 3
Seq#:267; Xaa Pos. 4
Seq#:268; Xaa Pos. 2
Seq#:273; Xaa Pos. 3
Seq#:274; Xaa Pos. 3
Seq#:275; Xaa Pos. 5
Seq#:276; Xaa Pos. 3
Seq#:277; Xaa Pos. 4
Seq#:278; Xaa Pos. 4
Seq#:279; Xaa Pos. 7
Seq#:280; Xaa Pos. 1
Seq#:281; Xaa Pos. 3,4
Seq#:282; Xaa Pos. 2

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Input Set : **A:\PTO.LM.txt**
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Seq#:283; Xaa Pos. 2
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Seq#:285; Xaa Pos. 3
Seq#:286; Xaa Pos. 4
Seq#:287; Xaa Pos. 4
Seq#:289; Xaa Pos. 3
Seq#:290; Xaa Pos. 3
Seq#:291; Xaa Pos. 3
Seq#:297; Xaa Pos. 2
Seq#:298; Xaa Pos. 3
Seq#:299; Xaa Pos. 3

VERIFICATION SUMMARY

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Input Set : A:\PTO.LM.txt

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L:38 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:57 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:76 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:95 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:275 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:294 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:313 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
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L:447 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:466 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
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L:618 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:637 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
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L:879 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:0
L:912 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0
L:931 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0
L:950 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0
L:969 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:0
L:988 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0
L:1007 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:0
L:1031 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:0

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L:1055 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:0
L:1079 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:0
L:1103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:0
L:1122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:0
L:1141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:0
L:1160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:0
L:1179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:0
L:1198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:0
L:1217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:0
L:1236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:0
L:1337 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:0
L:1356 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:0
L:1375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:0
L:1408 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:0
L:1427 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:0
L:1451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:0
L:1475 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:0
L:1494 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77 after pos.:0
L:1513 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:0
L:1532 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:0
L:1551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:0
L:1570 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:0
L:1589 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82 after pos.:0
L:1622 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:0
L:1641 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:0
L:1665 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:86 after pos.:0
L:1689 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:87 after pos.:0
L:1708 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88 after pos.:0
L:1727 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89 after pos.:0
L:1746 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90 after pos.:0
L:1765 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91 after pos.:0
L:1784 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:92 after pos.:0
L:1803 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:0
L:1827 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:0
L:1902 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99 after pos.:0
L:1921 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:100 after pos.:0
L:1940 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:0
L:1959 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:102 after pos.:0
L:1978 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103 after pos.:0
L:2002 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:104 after pos.:0
L:2021 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:105 after pos.:0
L:2040 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:106 after pos.:0
L:2059 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:107 after pos.:0
L:2078 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:108 after pos.:0
L:2102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:0
L:2121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:0
L:2140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111 after pos.:0
L:2159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:0
L:2178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113 after pos.:0

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L:2202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:114 after pos.:0
L:2226 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:115 after pos.:0
L:2250 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116 after pos.:0
L:2274 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:117 after pos.:0
L:2293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:118 after pos.:0
L:2317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:119 after pos.:0
L:2336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120 after pos.:0
L:2360 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121 after pos.:0
L:2384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122 after pos.:0
L:2403 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123 after pos.:0
L:2427 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:124 after pos.:0
L:2446 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125 after pos.:0
L:2470 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126 after pos.:0
L:2489 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127 after pos.:0
L:2508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:128 after pos.:0
L:2527 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:129 after pos.:0
L:2546 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:130 after pos.:0
L:2570 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:131 after pos.:0
L:2594 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:132 after pos.:0
L:2613 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:133 after pos.:0
L:2637 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:134 after pos.:0
L:2661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:135 after pos.:0
L:2685 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:136 after pos.:0
L:2709 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:137 after pos.:0
L:2728 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:138 after pos.:0
L:2752 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:139 after pos.:0
L:2776 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:140 after pos.:0
L:2800 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:141 after pos.:0
L:2819 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:142 after pos.:0
L:2838 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:143 after pos.:0
L:2857 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:144 after pos.:0
L:2876 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:145 after pos.:0
L:2900 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:146 after pos.:0
L:2924 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:147 after pos.:0
L:2943 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:148 after pos.:0
L:2967 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:149 after pos.:0
L:2991 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:150 after pos.:0
L:3015 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:151 after pos.:0
L:3039 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:152 after pos.:0
L:3058 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:153 after pos.:0
L:3082 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:154 after pos.:0
L:3106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:155 after pos.:0
L:3130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:156 after pos.:0
L:3149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:157 after pos.:0
L:3168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:158 after pos.:0
L:3187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:159 after pos.:0
L:3206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:160 after pos.:0
L:3230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:161 after pos.:0
L:3254 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:162 after pos.:0

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L:3278 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:163 after pos.:0
L:3302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:164 after pos.:0
L:3326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:165 after pos.:0
L:3429 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:172 after pos.:0
L:3448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:173 after pos.:0
L:3467 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:174 after pos.:0
L:3486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:175 after pos.:0
L:3505 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:176 after pos.:0
L:3524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:177 after pos.:0
L:3543 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:178 after pos.:0
L:3562 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:179 after pos.:0
L:3637 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:184 after pos.:0
L:3656 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:185 after pos.:0
L:3675 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:186 after pos.:0
L:3708 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:188 after pos.:0
L:3727 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:189 after pos.:0
L:3751 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:190 after pos.:0
L:3770 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:191 after pos.:0
L:3794 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:192 after pos.:0
L:3813 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:193 after pos.:0
L:3832 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:194 after pos.:0
L:3851 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:195 after pos.:0
L:3884 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:197 after pos.:0
L:3903 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:198 after pos.:0
L:3927 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:199 after pos.:0
L:3946 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:200 after pos.:0
L:3970 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:201 after pos.:0
L:3989 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:202 after pos.:0
L:4008 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:203 after pos.:0
L:4027 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:204 after pos.:0
L:4060 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:206 after pos.:0
L:4079 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:207 after pos.:0
L:4103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:208 after pos.:0
L:4122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:209 after pos.:0
L:4146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:210 after pos.:0
L:4165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:211 after pos.:0
L:4184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:212 after pos.:0
L:4203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:213 after pos.:0
L:4222 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:214 after pos.:0
L:4246 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:215 after pos.:0
L:4270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:216 after pos.:0
L:4294 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:217 after pos.:0
L:4318 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:218 after pos.:0
L:4337 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:219 after pos.:0
L:4356 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:220 after pos.:0
L:4375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:221 after pos.:0
L:4394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:222 after pos.:0
L:4413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:223 after pos.:0
L:4432 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:224 after pos.:0

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L:4451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:225 after pos.:0
L:4470 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:226 after pos.:0
L:4489 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:227 after pos.:0
L:4508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:228 after pos.:0
L:4527 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:229 after pos.:0
L:4546 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:230 after pos.:0
L:4579 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:232 after pos.:0
L:4598 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:233 after pos.:0
L:4622 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:234 after pos.:0
L:4641 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:235 after pos.:0
L:4665 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:236 after pos.:0
L:4684 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:237 after pos.:0
L:4703 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:238 after pos.:0
L:4722 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:239 after pos.:0
L:4755 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:241 after pos.:0
L:4774 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:242 after pos.:0
L:4798 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:243 after pos.:0
L:4817 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:244 after pos.:0
L:4841 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:245 after pos.:0
L:4865 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:246 after pos.:0
L:4889 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:247 after pos.:0
L:4913 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:248 after pos.:0
L:4937 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:249 after pos.:0
L:4956 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:250 after pos.:0
L:4975 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:251 after pos.:0
L:4994 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:252 after pos.:0
L:5013 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:253 after pos.:0
L:5130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:261 after pos.:0
L:5149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:262 after pos.:0
L:5168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:263 after pos.:0
L:5187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:264 after pos.:0
L:5211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:265 after pos.:0
L:5230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:266 after pos.:0
L:5249 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:267 after pos.:0
L:5268 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:268 after pos.:0
L:5355 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:273 after pos.:0
L:5374 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:274 after pos.:0
L:5403 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:275 after pos.:0
L:5432 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:276 after pos.:0
L:5461 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:277 after pos.:0
L:5490 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:278 after pos.:0
L:5509 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:279 after pos.:0
L:5528 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:280 after pos.:0
L:5552 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:281 after pos.:0
L:5571 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:282 after pos.:0
L:5590 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:283 after pos.:0
L:5609 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:284 after pos.:0
L:5633 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:285 after pos.:0
L:5652 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:286 after pos.:0

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L:5671 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:287 after pos.:0
L:5704 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:289 after pos.:0
L:5723 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:290 after pos.:0
L:5747 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:291 after pos.:0
L:5836 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:297 after pos.:0
L:5855 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:298 after pos.:0
L:5874 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:299 after pos.:0